

ACCESSION NR: AT4045610

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ACCESSION NR: AT4045610

It is proposed that the system reserve power be used to compensate for those
values which art. has: 43 equations, 7 figures and 6 tables

ASSOCIATION: Laboratoriya TVN NIIPT

NO REF Sovt: 009

OTHER: 000

1 Card 3/3

KALININ, Ye.V., kand. tekhn. nauk; TIKHODEYEV, N.N., kand. tekhn. nauk;
KELNAR, O., kand. tekhn. nauk; KOGOUTOVA, D., inzh.

Wet flashover strength of long suspension insulators. Elek. sta. 35
no.9:68-73 S '64. (MIRA 18:1)

1. Nauchno-issledovatel'skiy institut postoyannogo toka (for Kalinin,
Tikhodeyev). 2. Nauchno-issledovatel'skiy institut energetiki Chekh-
oslovatskoy Sotsialisticheskoy Respubliki (for Kelnar, Kogoutova).

VOKALEK, Ya., [Vokalck, J.], inzh.; KUCHERA, Ya. [Kucera, J.], kand. tekhn. nauk; GUTMAN, Yu.M., inzh.; TIKHODEYEV, N.N., kand. tekhn. nauk; FILIPPOV, A.A., kand. tekhn. nauk

Discharge voltages of line insulation during switching surges.
Elek. sta 36 no.4:55-63 Ap '65. (MIRA 18:6)

1. Nauchno-issledovatel'skiy institut energetiki Chekhoslovatskoy Sotsialisticheskoy Respubliki (for Vokalek, Kuchera). 2. Nauchno-issledovatel'skiy institut postoyannogo toka (for Gutman, Tikhodeyev, Filippov).

ARTEM'YEV, Dmitriy Yegorovich; TIKHODEYEV, Nikolay Nikolayevich;
SHUR, Solomon Saulovich; SHCHEDRIN, N.N., nauchn. red.

[Statistical principles of the selection of the insulation of power transmission lines with potentials of a high order; switching surges and electrical characteristics of insulation] Statisticheskie osnovy vybora izoliatsii linii elektroperedachi vysshikh klassov napriazheniya; kommutatsionnye perenapriazheniya i elektricheskie kharakteristiki izoliatsii. Moskva, Energiia,
1965. 375 p. (MIRA 18:5)

L 1789-1-65 EPA(s) 1-2 EWT + EPA:W - 2 EPA: 11/Pt.10 MILK
ACCESSION NR AT4043209 S 1000/63 016'000/0003/0030

AUTHOR: Tikhodeyev, N. N.

TITLE: Principles of statistical coordination of insulation of 220-750 kV lines

SOURCE: Mezhdunarodnoe nauchno-tehnicheskoye soveshchanie po perenapryazheniyam.
Sverdlovsk, izd. Trud, Sverdlovsk, 1961.

TOPIC TAGS: overvoltage, power line, high voltage line, electrical transmission, insulation, insulator string, flashover

ABSTRACT: The author points out that the design methods used in selecting length of insulator strings according to internal overvoltages only, with safety factors allowed for a rain of 3-5 mm/min. and for damaged insulators, as well as the basis for spacing the phases in terms of internal overvoltages and wind velocity, are unsatisfactory, since full account has not been taken of statistical factors combining simultaneous overvoltage, rain, and wind. The author proposes to take into account all three factors simultaneously.

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L 12891-53

ACCESSION NR: AT4046209

unloaded lines without shunting resistances, the factor exceeding 3.5 in only 2% of the cases. After giving empirical equations for the probabilities of rain and wind of various intensities, a statistical coordination coefficient is defined in terms of the normalized deflection, and the number of flashovers per year is formally calculated, first for one string and then for an entire line. The number of flashovers per year due to rain, string and line for an entire line.

are then published for the case of a single string, and the effect of air spacing, wind, and load current on the number of flashovers per year is determined.

Card 2/3

L 12891-51
ACCESSION NR: AT4046209

ASSOCIATION: Nauchno-issledovatel'skiv Institut postoyannogo toka (Institute for Direct Current Research)

SUBMITTED: 05 May 63

ENCL: 00

SUB CODE: EE

NO REF Sov: 207

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Card 3/3

L 8975-65

ACCESSION NR: AT4045612

S/0000/64/000/000/0142/0146

AUTHOR: Tikhodeyev, N. N. (Candidate of technical sciences, head of laboratory for high tension techniques)

TITLE: Minimal air gaps for 500 kv transmission lines and substations

SOURCE: Dal'niye elektroperedachi 500 kv (Long-distance transmission of 500 kv, electric power); sbornik statey. Moscow, Izd-vo Energiya, 1964, 142-146

TOPIC TAGS: high voltage line, electric power transmission, power line, air gap, minimal air gap, substation, high voltage substation, breakdown voltage

ABSTRACT: In conjunction with the construction of a 100 kv line between the Lenin Hydroelectric Plant on the Ural River and Magnitogorsk, and extensive construction of 500 kv lines, and due to the fact that the previous literature on subjects available for relatively low values of breakdown voltage and the corresponding gaps (up to 1961, by Caron and Cozzani, Tr. AIEE, Jan. 1929, and Hagenbuch, Kolets and Begnyn (E. Eng., Apr. 1952, p. 318) were contradictory, it was decided to obtain a new set of measurements for various electrode configurations and for values up to 1000 kv for gaps to grounded objects and up to 1500 kv for gaps between two equitential lines. The results of these measurements, which were obtained in the open air and in a vacuum chamber, are given in the tables. The values are corrected to realistic humidity, pressure, and temperature according to Gost 1518-60.

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L 3075-65

ACCESSION NR: AT4045612

which was proven inaccurate by subsequent measurements conducted in 1957-61. In the
mean time, the value of the dielectric strength of the insulation was increased.

The upper limit of the breakdown voltage of the insulation was determined at 1000 kVDC as shown in Fig. 1 of the reference. Measurements were conducted at ambient temperature 1959 and relative humidity of 60% at 20°C. It was observed that the mean value of the total breakdown voltages from the year 1957 up to the year 1961 followed the normal law with standard deviation of 10%. The mean value of the breakdown voltage was 1000 kVDC.

On 11 March 1964, the following was submitted:

ANALYST: [redacted] APPROVING OFFICER: [redacted] DATE: [redacted]
REMARKS: [redacted] APPROVING OFFICER: [redacted] DATE: [redacted]
INSTITUTE FOR DIRECT CURRENT.

SUBMITTED: 13 Mar 64
NO REF Sov: 007

ENCL: 02
OTHER: 001

SUB CODE: FE

L 3975-65

ACCESSION NR: AT4045612

ENCLOSURE: 01

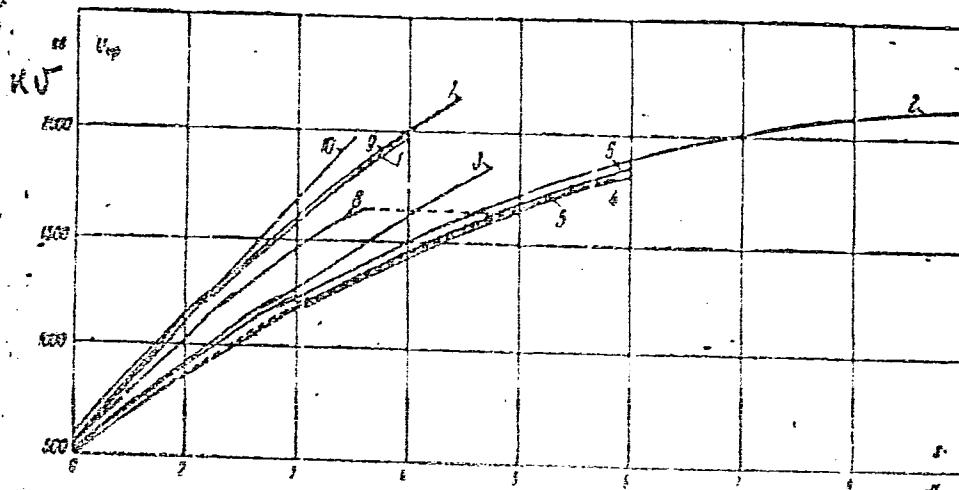


Fig. 1 - Curves of breakdown voltages of all investigated air gaps: 1 - rod to rod
2 - rod to plane, 3 - conductor to support, 4 - horizontal ring to plane, 5 - vertical
ring to plane, 6 - sphere to plane, 7 - ring to ring (both rings under a potential), 8 -
ring to ring (one ring grounded), 9 - conductor to conductor, 10 - conductor to rod

L-6970-60

ACCESSION NR: AT4045612

ENCLOSURE: 02

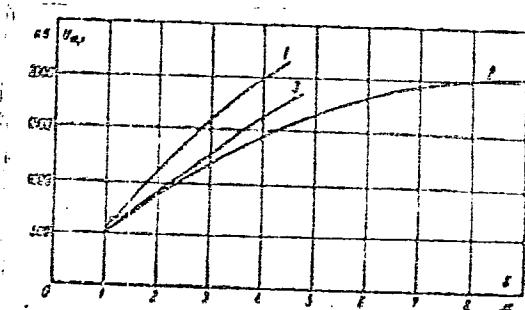


Figure 2 - Curves of breakdown voltage across long air gaps recommended for computations of minimum allowable distances on lines and in equipment. 1 - symmetrical gaps. 2 - nonsymmetrical gaps. 3 - gap between conductor and support.

ACCESSION NR: A14045613

8/0000/64/000/000/0147/0153

3

AUTHOR: Dalinin, Ye. V. (Candidate of technical sciences, Head of a sector of laboratory for high tension techniques); Merkhalev, S. D. (Candidate of technical sciences, Senior research associate); Solomakov, N. M. (Candidate of technical sciences, Senior research associate); Tikhodeyev, A. N. (Candidate of technical sciences, Head of laboratory for high tension techniques)

TITLE: Electrical characteristics of insulators used on 500 kv lines

SOURCE: Dal'niye elektroperedachi 500 kv (long-distance transmission of 500 kv electric power); sbornik statey. Moscow, Izd-vo Energiya, 1964, 147-153

TOPIC TAGS: high voltage line, power line, electric power transmission, insulator, insulator chain, breakdown voltage, disruptive voltage, flashover

ABSTRACT: The disruptive voltages of insulator chains were measured to help select the proper insulator system for a 500 kv power line. The types of insulators investigated were the P-7, P-8, P-6, P-11 and the new alkaline glass types, PM and PS. Results obtained in the laboratory and in the field for dry insulators showed that discharge in this case takes place through the air between shield ring and support structures. The results are summarized in the following table. The following table gives the relationship between the number of insulators in a chain and the voltage at which the voltage across almost linearly with the number of insulators in the chain. It can

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therefore be characterized by a voltage gradient E_m , which generally increases with a decrease in H/D, i.e. the ratio of insulator height to the diameter of its disc. For P-type insulators with H/D = 0.63, $E_m = 215 \text{ kv/m}$; for PM-insulators with H/D=0.51-0.55, $E_m=280 \text{ kv/m}$. The flashover characteristics of insulator chains were then investigated at the constant voltages. These were also found to increase linearly with the number of insulators in the chain and the voltage gradient in this case varied with atmospheric conditions and the amount of dirt collected on the porcelain. Correspondingly, the required number of insulators in a chain for a 500 kV flashover voltage varied with the atmospheric conditions, being generally largest for a dry day and decreasing with increasing humidity and decreasing for wet insulators or heavy rains (72 for P-type insulators and 60 for PM). The voltage characteristics of the insulators were investigated and the voltage gradient of 1800-2000 kv/m was considered as the safe voltage gradient for the insulation of 1800 kv/m.

1990-1991: *Wetland Management* (with Dr. Michael J. Lusk)

For more information about the National Institute of Child Health and Human Development, please visit the NICHD website at www.nichd.nih.gov.

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001755530009-6"

ACCESSION NR. A744643.3

REF ID: A744643.3

SEARCHED INDEXED SERIALIZED FILED

3/14/01

Card 3/4

ACCESSION NR: AT4046013

ENCLOSURE: 01

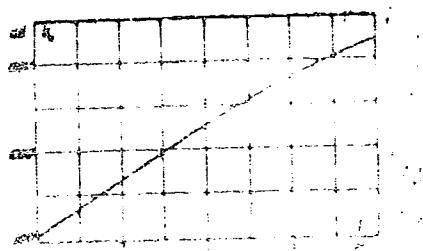


Fig. 1: Dependence of the disruptive voltage of a dry disc insulator chain with a shielding on the length of the chain.

4584-65

ACCESSION NR: A14045611

S/0000/64/000/000/0130/0142

AUTHORS: Yegorova, L.V. (Senior research associate); Kislova, N.S. (Junior research associate); Tikhodavev, N.N. (Candidate of technical sciences, head of laboratory and senior research associate)

TITLE: Results of corona loss measurements on the NIIPT experimental line using various conductors

SOURCE: Dal'niye elektroperedachi 500 kv (Long-distance transmission of 500 kv electric power); sbornik statey. Kirov, Izdat. energeticheskogo fakulteta, 1971-1972

TOPIC TAGS: corona, corona loss, high voltage line, electric power transmission, power line, conductor selection, weather effect

ABSTRACT: The investigation of corona power losses for 330 and 400 + -500 kv transmission lines, which extended over many years, has now been completed and the investigations for a 750 kv line are continuing at the present time. This article presents the final results of these investigations in two sets of normalized data tables.

L 8681-65

ACCESSION NR.: AT4045611

where P is the corona power loss, n is the number of conductors, r_0 is the conductor radius, U is the line voltage and E is the field in kv/cm. The average data for all conductors under investigation is shown in Figures 1 and 2 of the Enclosure. Special purpose curves are also given for the case of two conductors. The data of Figures 1 and 2 are about the same, as shown by a brief variance analysis using Student's method which is included. Figure 1 has 6 figures, 3 tables and 2 formulas.

ASSOCIATION Laboratoriva tekhniki sv'etoklich naivazheniy NPPT (Laboratory)

L 8684-65
ACCESSION NR: AT4045611

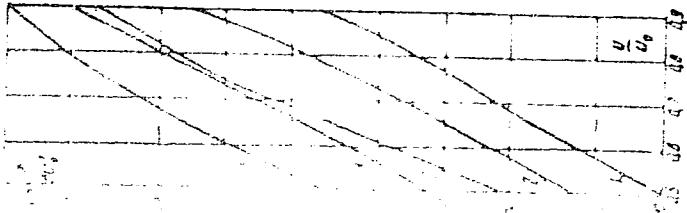
ENCLOSURE: 01

Figure 1

Average curves of

$$\frac{D}{D_0} = f(U)$$

for various values of α ,
 β and γ .



Card 1.4

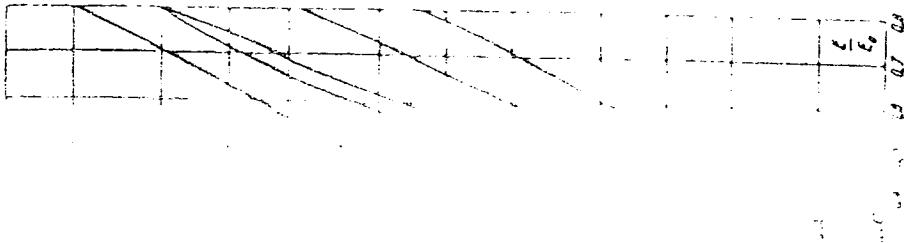
L 8684-65

ACCESSION NR: AT4045611

ENCLOSURE: 02

Figure 2

Average curves
of



ACCESSION NR: AP5000963

S/0104/64/000/009/0068/0073

B

AUTHCR: Kalinin, Ye. V. (Candidate of technical sciences); Tikhodeyev, N. N. (Candidate of technical sciences); Kelnar, O. (Candidate of technical sciences); Kogoutova, D. (Engineer)

TITLE: Wet flashover voltages of long insulator strings

SOURCE: Elektricheskiye stantsii, no. 9, 1964, 68-73

TOPIC TAGS: insulator string, flashover voltage, insulator test

ABSTRACT: The results of wet flashover tests of superhigh-voltage string insulators are reported. A 2x750-kv cascade transformer supplied from a 350-kva synchronous generator was used as a source of test voltages. Strings of 10-32 PM-4,5 insulators and 12-30 P-8,5 insulators were sprayed with chemically purified ($10,000$ ohm-cm) water at a rate of 3 mm/min and tested for flashover up to 1,300 kv; numerical data is tabulated. At lower voltages, flash-

Card 1/2

ACCESSION NR: AP5000963

overs cascaded the string. At higher voltages, some arcs struck the supporting steel girder, away from the string, at still higher voltages, when dry and wet flashover voltages came close to each other, the arcs discharged between the shield ring and the girder. It is recommended for suspension voltage lines, the number of units in the string can be selected on the basis of the dry flashover voltage. Orig. art. has: 9 figures, 5 formulas, and 1 table.

ASSOCIATION: NIIPt;
NII energetiki ChSSR (Scientific Research Power-Engineering Institute, ChSSR)

SUBMITTED: 00

ENCL: 00

SUB CODE: EE, PR

NO REF SOV: 007

OTHER: 003

Card 2/2

AKOPYAN, A. A.; ALEKSANDROV, YEMELYANOV, N. P.; LEVITOV; MIROLYUBOV, NAYASHKOV, I. S.; PANOV, A. V.; POPKOV, V. I.; ROKOTYAN, S. S.; SOKOLOV, N. N.; TIKHODEYEV, N. N.

"The 750 kV Experimental Commercial Transmission Line Konakovo-Moscow."

report submitted for 20th Biennial Sess, Intl Conf on Large Electric Systems,
Paris, 1-10 Jun 64.

AKOPYAN, A. A.; ALEKSANDROV, G. N.; YEMELYANOV, N. P.; LEVITOV, V. I.; MIROLYUBOV, A. V.
NAYASHKOV, I. S.; PANOV, A. V.; POPKOV, V. I.; ROKOTYAN, S. S.; SOKOLOV, N. N.;
TIKHODEYEV, N. N.

"The 750 kV Experimental Commercial Transmission Line Konakovo-Moscow."

report submitted for Intl Conf on Large Electric Systems, 20th Biennial Session,
Paris, 1-10 Jun 64.

MIROLYUBOV, Nikolay Nikolayevich; KOSTENKO, Mikhail Vladimirovich;
LEVINSHTEYN, Mikhail L'vovich; TIKHODEXEV, Nikolay
Nikolayevich; DOLGIN, A.I., prof., retsentent; BORISOGLERSKIV, P.V., dots.,
retsentent; PERKOVSKAYA, G.Ye., red.; GOROKHOVA, S.S., tekhn.red.

[Methods for calculating electrostatic fields] Metody ras-
cheta elektrostaticeskikh polei. [By] N.N.Mirolyubov i dr.
Moskva, Vysshiaia shkola, 1963. 414 p. (MIRA 17:3)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001755530009-6

TIKHODEYEV, Pavel Mikhaylovich

"Review of Units of Illumination," "Elektrичество", No.10, 1947

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001755530009-6"

TIKHODEYEV, P.M.

"New State Light Standard in the USSR.!"

Academy of Sciences USSR, Committee on Illumination Engineering, Department of Technical Science; Editor-in -Chief M.A.Shatelen, Corresponding Member of Academy of Sciences USSR, Academy of Sciences USSR, 1949, 120 pp, 3,000 copies

TIKHODEYEV, P. M. Dr. Tech. Sci.

"Review of M. A. Karyakin's 'Light Emissions of a Carbon Arc', Iz. Ak.
Nauk SSSR, Otdel. Tekh. Nauk, No.3, 1949

All-Union Sci. Res. Inst. Metrology im. Mendeleyev

TIKHODEYEV, F. M.

Novyi Gosudarstvennyi Svetovoi Etalon SSSR (New Standard of Comparison of Light in
the USSR), 118 p., Moscow and Leningrad, 1949.

TIKHODMYEV, P.M.

Basic method for polychromatic measurements. Trudy VNIIM no.17:
17-46 '52. (MIRA 11:6)
(Optical measurements)

TIKHODEN'EV, P.M.

~~Eliminating errors in corrections for the departures from the law
of the squares of the distances for incandescent lamps used in
optical measurements. Trudy VNIIM no.17:98-99 '52. (MIRA 11:6)~~

1. Fotometricheskaya laboratoriya Vsesoyuznogo nauchno-issledovatel's-
kogo instituta metrologii.
(Optical measurements)

TIKHODEYEV, P.M., prof.; YUDIN, M.F., kand.tekhn.nauk, otv.red.;
MALIKOV, M.F., prof., retsenzent; MAKHROVSKIY, V.G., prof.,
retsenzent; FRUMKIN, P.S., tekhn.red.

[Essays on standard (metrological) measurements] Ocherki ob
iskhodnykh (Metrologicheskikh) izmereniiakh. Moskva, Gos.
nauchn.-tekhn.izd-vo mashinostroit.i sudostroit.lit-ry 1954.
215 p. (Leningrad. Vsesoyuznyi nauchno-issledovatel'skii
institut metrologii, no.21) (MIRA 13:3)

1. Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta
metrologii imeni D.I.Mendeleyeva (for Yudin).
(Mensuration)

~~TIKHODEYEV, P.M., professor.~~

Work of M.A. Shatelen in the field of lighting engineering and
metrology. Elektrichestvo no.12:6-8 D '55. (MLRA 9:3)
(Shatelen, Mikhail Andreevich, 1865-)

7 14 1955 [REDACTED]

AID P - 4116

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 3/33

Author : Tikhodeyev, P. M., Prof.

Title : Work of M. A. Shatelen in the field of illumination engineering and metrology.

Periodical : Elektrichestvo, 12, 6-8, D 1955

Abstract : The author gives a short account of Professor Shatelen's activity in the field of illumination engineering and metrology.

Institution : None

Submitted : 0 31, 1955

TIKHODEYEV, P.M.

Rotatory absorbers for the accurate measurement of radiation
energy. Izm. tekhn. no.1:28-30 Ja-F '55. (MLRA 8:9)
(Radiation--Measurement)

TIKHODEYEV, P.M., doktor tekhnicheskikh nauk, professor

Light units; proposed new standard. Svetotekhnika 1 no.1:8-12
F '55. (MIREA 8:9)

1. Vsesoyuznyy institut metrologii
(Optical measurements)

TIKHODEYEV, P.M.

535.241
18576. Light units (draft of new standard). P. M.
TIKHODEYEV. Svetotekhnika, No. 1, 8-11 (1955) In Russian.
The new standard is based on the lumen and the MKS system of units. W. R. STOKER

SMW/PSK

TIKHODELEV, P.M.

GUREVICH, M.M., professor; KARYAKIN, N.A., professor; MESHKOV, V.V.,
professor; SOKOLOV, M.V., professor; TIKHODELEV, P.M., professor;
FABRIKANT, V.A., professor; IVANOVA, N.S., kandidat tekhnicheskikh
nauk; SHNEYBERG, Ya.A.; YUROV, S.G.; ASHKENAZI, G.I., inzhener.

Professor L.D. Bel'kind; on his sixtieth birthday. Svetotekhnika
2 no.5:26 S '56. (MLRA 9:11)

(Bel'kind, Lev Davidovich, 1896-)

TIKHODEYEV, P. M., doktor tekhnicheskikh nauk, professor.

Present state of the system of light units (in connection with
the promulgation of a new standard for light units). Svetotekh-
nika 2 no.6:9-11 ■ '56. (MLRA 9:12)

1. Vsesoyuznyy institut metrologii.
(Light--Standards)

TIKHODEYEV, P.M.

A.K.Kelesov; on his 70th birthday. Izm.tekh.no.3:83 My-Je '56.
(Kelesov, Aleksandr Konstantinovich, 1886-) (MIRA 9:9)

TIKHODEYEV, P.M.

Illuminance units according to All-Union State Standard nos.7932-56.
Izm.tekh. no.5:8:11 S-0 '56. (MLRA 10:2)
(Lighting--Standards)

TIKHODEYEV, P.M.;

On determining the roentgen unit. Izm.tekh. no.1:15-16 Ja-F '56.
(MLRA 9:5)

(Radiography) (X rays--Measurement) (Gamma rays--Measurement)

BEL'KIND, L.D.; KNORRING, G.M.; LEVITIN, I.Ye.; MESHKOV, V.V.; RYAROV,
M.S.; SOKOLOV, M.V.; TIKHODNEV, P.M.; SHAYKEVICH, A.S.

Aleksandr Anan'evich Trukhanov; on the occasion of the 60th
anniversary of his birth. Svetotekhnika 4 no. 7:28 J1 '58.
(MIRA 11:?)

(Trukhanov, Aleksandr Anan'evich, 1898-)

TIKHODEYEV, P.M.
TIKHODEYEV, P.M., doktor tekhn. nauk, prof.

Changes in the regulations for electric lighting in "Building
specifications and regulations" and measures for carrying them
into effect. Svetotekhnika 4 no.3:12-18 Mr '58. (MIRA 11:2)
(Electric lighting)

BOLDYREV, N.G., GUREVICH, M.M., TIKHODEYEV, P.M., FEDOROV, N.T.

On N.D. Niuberg's article "Colorimetric experiments as a means of
studying color sense and the requirements they should meet."
Biofizika 3 no.3:381-383 '58 (MIRA 11:6)
(COLORIMETRY)
(COLOR SENSE)

TIKHODEYEV, P.M.
ARUTYUNOV, V.O.; GORBATSEVICH, S.V.; ZUBRILIN, V.P.; KOLOSOV, A.K.; ROMA-
NOVA, M.F.; TIKHODEYEV, P.M.; CHERNYSHEV, Ye.T.; SHIROKOV, K.P.;
SHRAMKOV, Ye.G.; YANOVSKIY, B.M.

Mikhail Fedoseevich Malikov; on his 75th birthday. Izm. tekhn. no.2:
(MIREA 10:6)
85-86 Mr-Ap '57. (Malikov, Mikhail Fedoseevich, 1882-)

TIKHODEYEV, P.M.
MESHKOV, V.V., prof.; SOKOLOV, M.V., prof.; TIKHODEYEV, P.M., prof.; FEDOROV,
B.F., prof.; RYABOV, M.S., kand. tekhn. nauk..

Professor V.N. Kianitsa; on his 70th birthday. Svetotekhnika 4 no.1:
28 Ja '58. (MIRA 11:1)
(Kianitsa, Viktor Nikolaevich, 1887-)

TIKHODEYEV, P.M.; FEDOROV, B.F.; VOLOTSKOY, N.V.; TELYAT'YEV, V.V.; ZIL'BER, D.A.;
SAPOZHNIKOV, R.A.; SHAYKEVICH, A.S.; KNORRING, G.M.; SEREБRYAKOV, V.M.;
DADIOMOV, M.S.; LEVIT, G.O.

Professor Viacheslav Vasil'evich Novikov; on his 70th birthday.
(MIRA 12:1)
Svetotekhnika 5 no.2:30 P '59.
(Novikov, Viacheslav Vasil'evich, 1888-)

TIKHODEYEV, S.M.

Roentgenography in duodenitis. Klin.med., Moskva no.4:72-78 Ap '50.
(CLML 19:3)

1. Moscow.

40323

S/194/62/000/006/098/232
D288/D308

9,4330

AUTHOR:

Tikhodeyev, Yu.S.

TITLE:

Design of the volt-amp characteristic of a tunnel diode

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1962, abstract 6-4-21 1 (V sb. 'Poluprovodnik. pribory i ikh primeneniye. no. 7, M., Sov., radio, 1961, 55-66)

TEXT: The relationship between volt-amp characteristic and physical properties of a tunnel diode are discussed in detail in terms of quantum mechanics. Based on a quantum reservoir model of the height comprising the n- and p- zones and the junction, general expressions are obtained for the total current density in terms of Fermi-Dirac distribution functions, the densities of quantum states $g_1(\varepsilon)$ in the n-region and $g_2(\varepsilon)$ in the p-region and the probability of tunnel pass of a particle through the barrier. Densities of quantum states according to Debye's method are expressed in terms of the

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S/194/62/000/006/098/232

Design of the volt-amp characteristic ... D288/D308

effective mass m^* . The required value of the broadening of impurity levels, due to overlapping of the zone of these levels by the basic zones, is found by the method of Heitler-London exchange integrals. The narrowing of the forbidden zone in the case of zone overlapping is determined through the simplifying assumption that the iso-energetic surface is spherical. The value obtained permits the finding of Fermi levels. For the most promising material, Ga As, the most probable direct tunnel passage is considered, neglecting dispersion. It is shown that the transparency coefficients D for the particle passage either way through the barrier are the same. By using the expression for D obtained by the Brillouin-Ventzel-Kramers method, the direct tunneling probability through the barrier is calculated. [Abstracter's note: Complete translation.]

Card 2/2

BURNYKH, V.S.; OVSTYENKO, V.V.; FASCHNIK, A.G.; TIKHOMAZ, N.V.

Hydraulic investigation of Donets gas pipelines. Neft. i gaz. pren.
(MPa 17:12)
no.4:59-64 O-D '63.

1. Ukrainskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta
prirodnogo gaza.

POPOV, N.G.; TIKHOLOV, K.; DOCHEV, D.

Our experience with gastric acidity determination with the use
of diagnex blue. Suvr. med. (Sofia) 15 no.12:27-32 '64

TIKHOLOV, Khr., inzh.; KHERMAN, Oto, inzh.

Changing the Sofia network from 150 to 380/220 v. Elektroenergiia
15 no. 7/8;21-22 Jl-Ag '64.

S/115/62/000/007/006/008
E192/E382

AUTHOR: Tikhomandritskaya, V.A.

TITLE: Coaxial junction with a reduced reflection coefficient

PERIODICAL: Izmeritel'naya tekhnika, no. 7, 1962, 41 - 42

TEXT: A demountable junction for a coaxial cable consists of internal and external cylinders (see Fig. 1). If the external-conductor cylinder has n_1 slots whose width is s_1 and n_2 slots having a width s_2 , the quantity:

$$A = \frac{n_1 s_1 + n_2 s_2}{\pi D_o} \quad (1)$$

can be regarded as the "weight" of the slots with regard to the circumference of the cylinder. Similarly, the weight for the internal cylinder is:

$$B = n_3 s_3 / \pi d_o \quad (2)$$

Card 1/3 2

S/115/62/000/007/006/008
E192/E382

Coaxial junction

where n_3 is the number of slots and

s_3 is the width of the slots of the internal cylinder,
respectively.

The wave impedance of the section occupied by a junction of this type is:

$$W_1 = 158 \text{ lg. } \frac{D_o + 2AH}{d_o - 2Bh}$$

which differs from the wave impedance of the uniform coaxial line. This difference in the impedances results in reflections at the junction. The magnitude of the reflection can be reduced by reducing the width of all the slots of both the conductors down to 0.2 - 0.3 mm and by using a special key for locking the external cylinder. In this way, the reflection coefficient of the junction can be halved. There are 4 figures and 2 tables.

Card 2/6:2

THKHDEYEV, YU.S.

PAGE 1 BOOK EXTRADITION

SER/1677

Polymorphous gallium-1-in semiconductor devices and their application. Collection of Articles, No. 5
(Semiconductor Devices and Their Application Series), No. 270 p., No. of copies printed: 3000
Author, Ed.-in-Chairman: V. N. Tikhonov; Author, Ed.: V. A. Fedotov; Author, Ed.: V. A. Vol'nov; Author, Ed.:
Editor, Author, Ed.: V. A. Fedotov; Author, Ed.: V. A. Vol'nov; Author, Ed.: V. A. Vol'nov; Author, Ed.: V. A. Vol'nov;
Author, Ed.: V. A. Vol'nov; Author, Ed.: V. A. Vol'nov; Author, Ed.: V. A. Vol'nov; Author, Ed.: V. A. Vol'nov;

Author, Ed.: V. A. Vol'nov; Author, Ed.: V. A. Vol'nov; Author, Ed.: V. A. Vol'nov; Author, Ed.: V. A. Vol'nov;
Author, Ed.: V. A. Vol'nov; Author, Ed.: V. A. Vol'nov; Author, Ed.: V. A. Vol'nov; Author, Ed.: V. A. Vol'nov;
Author, Ed.: V. A. Vol'nov; Author, Ed.: V. A. Vol'nov; Author, Ed.: V. A. Vol'nov; Author, Ed.: V. A. Vol'nov;
Author, Ed.: V. A. Vol'nov; Author, Ed.: V. A. Vol'nov; Author, Ed.: V. A. Vol'nov; Author, Ed.: V. A. Vol'nov;

PURPOSE: This collection of articles is intended for specialists working in the
field of semiconductor devices.

CONTENT: The article discusses basic transistor parameters, methods of measuring
them, and some problems in the use of transistor circuit diagrams. Two of the
articles describe the use of semiconductor diodes for parametric amplification.
No personalities are mentioned. References occupying 11 of the 12 articles.

NAME OF COMPILER:

Vorob'ev, I. M. A. Pashchich, and V. A. Vol'nov. High-Frequency Switch Transistor with Separated Anode Voltage on the Collector. 61
Mechnikov, M. M. and Yu. S. Shabotov. Temperature Dependence of the Frequency Characteristics in Metal Transistors. 83
Razumov, V. A. (deceased) Calculation of Maximum Permissible Pulse Power for Semiconductor Devices in Pulse Work Under Overload Conditions. 93
Petrovskii, V. P., A. A. Rybkin, and V. D. Seregin. Transistor Notes. 107
Rozhdestvenskii, Yu. A. and A. P. Shishkov. Measurement of Transistor Parameters Within the Ultrahigh-Frequency Range. 159
Strelkov, G. Parallel Work of Transistors Used in the Radiation-Control Circuits of Electric Machines. 179
Shestopalov, Yu. E. Single-Cycle DC Voltage Transformation Converters. 205
Zhdanov, L. I. High-Speed Switching Circuits. 235
Chernikov, N. D. and Yu. O. Logachev. Junction-Transistor Frequency Filter. 254
Bogolyubov, A. A. Protected Semiconductor Equipment for Irrigation Systems. 262

CATALOGUE: Library or Congress

2826
S/194/61/000/001/035/038
D216/D304

9.2150

AUTHOR: Tikhodeyev, Yu. S.

TITLE: The method of selecting power transistor triodes
for full-wave circuit operation

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,
no. 1, 1961, 26, abstract 1 K226 (V Sb. Poluprovod-
nik, pribory i ikh primeneniye, no. 4, M., Sov.
Radio, 1960, 202-205)

TEXT: The suggested method is based on an easily established re-
lationship between the non-linear distortions (K_f) and power loss
(ΔP) and the difference between the collector current which results
in the unbalance of the full-wave power transistor rectifying cir-
cuit. The method consists of observing the transient characteris-
tics of transistor-triodes on a CRO. To do so the power triodes
are connected in the common emitter configuration and loaded with
a pure resistance. A constant AF voltage from an AF generator

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S/194/61/000/001/035/038
D216/D304

The method of selecting...

is applied to the input. The vertical-deflection plates of the CRO are connected parallel to the input and horizontal-deflection plates parallel to the load. The beam deflection in the vertical and horizontal direction is thus proportional to the input voltage U_{in} and the collector current I_e respectively and the angle

$$\theta = \tan^{-1} \frac{U_{in}}{I_e R_L}$$
 of the slope of the transient of the CRO screen

with respect to the X-axis, for constant U_{in} and load R_L , determined only by I_e . Assuming permitted K_f and ΔP , or, which is the same, the permitted difference of current I_e in the arms, a certain angle θ is obtained between the limiting transient characteristics. Those triodes are chosen, whose transient characteristics have their slopes within the limits of θ .

Card 2/2

S/194/61/000/006/039/077
D201/D302

94310

AUTHORS:

Vaksenburg, V.Ya., Pashkevich, M.A. and Tikhodeyev,
Yu.S.

TITLE:

A high frequency drift transistor with increased
breakdown emitter voltage

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika,
no. 6, 1961, 15, abstract 6 D91 (V sb. Poluprovodnik.
pribory i ikh primeneniye, no. 5, M., Sov. radio,
1960, 61-82)

TEXT: Problems are considered of the design of a germanium transistor for frequencies > 100 mc/s, analogous to types S401-S403 (P401-P403), but differing by a larger value of permissible voltage at the emitter-base junction. (5-10 V as compared with 1-2 V for P401-P403). Analytical relations are derived from the strict theory of drift junction transistors; these relations permit the evaluation of the optimal diffusion process for obtaining a junction transistor $\frac{1}{B}$

Card 1/2

A high frequency drift transistor...

S/194/61/000/006/039/077

D201/D302

with the required parameters. The calculated values are in good agreement with experimental data. The problems are considered in choosing the emitter alloy and in determining ways of obtaining lower base resistance. Abstracter's note: Complete translation *VB*

Card 2/2

S/194/61/000/006/041/077
D201/D302

Temperature dependence...

minority carriers on the concentration of the active impurity, it is possible to determine the character of impurity distribution in the base layer. From the author's summary. [Abstracter's note:
Complete translation] *VB*

Card 2/2

SOKOLOVA, T.A.; TIKHODEYEVA, I.I.

Synthesis of N-substituted methacrylamides. Part 5: N,N'-alkylenedimethacrylamides. Zhur. ob. khim. 31 no.7:2222-2224
Jl '61. (MIRA 14:7)

1. Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR.
(Methacrylamide)

24425
S/079/61/031/007/007/C08
D229/D305

15.8080

AUTHORS:

Sokolova, T.A., and Tikhodeyeva, I.I.

TITLE:

Synthesis of N-substituted methacrylamides. V. N,N'-alkylenedimethacrylamides

PERIODICAL: Zhurnal obshchey khimii, v. 31, no. 7, 1961,
2222 - 2224

TEXT: The paper describes the first synthesis and characterization of N,N'-ethylene-, 1,2 propylene - hexamethylene, and decamethylene dimethacrylamides. As acylating agents, methacrylic acid chloride (MAC) and methacrylic acid anhydride (MAA) were used. Reaction of MAC with alkylene diamines required equimolar quantities of the reactants. Owing to the high basicity of the diamines, the reaction is strongly exothermic. Reaction of the diamines (1 mole) with MAA (2 moles) gave high yields of the desired products. It was also observed that ethylene diamine reacts with methacrylic acid giving a salt, and not an addition product across the double

Card 1/3

24425

Synthesis of N-substituted ...

S/079/61/031/007/008
D229/D305

ASSOCIATION: Institut visokomolekulyarnykh soyedineniy, Akademii nauk, SSSR (Macromolecular Compounds Institute, Academy of Sciences, USSR)

SUBMITTED: July 16, 1960

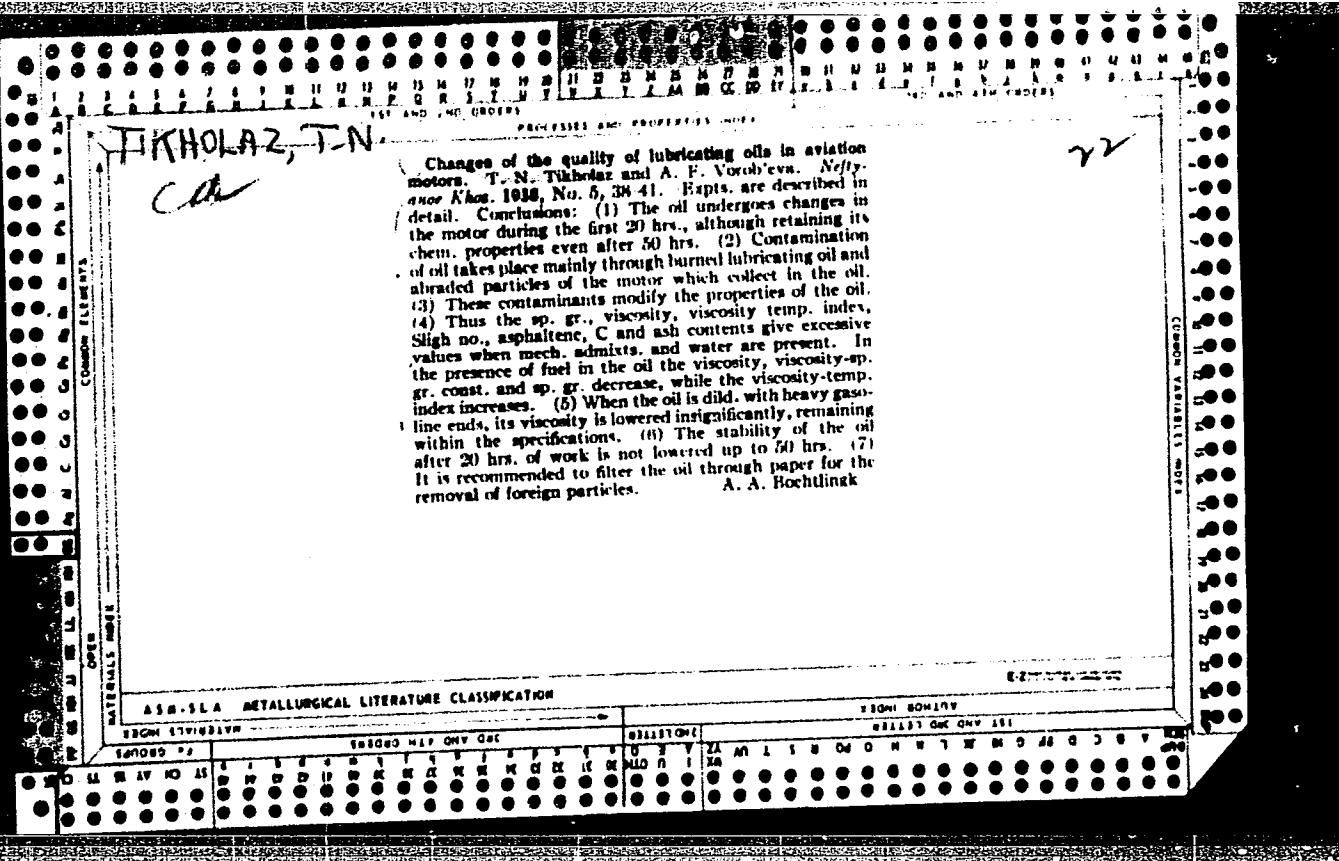
X

Card 3/3

SOKOLOVA, T.A.; OVSYANNIKOVA, L.A.; TIKHODEYEVA, I.I.

Synthesis of N-substituted methacrylamides. Part 7. Zhur. ob.
khim. 33 no.5:1502-1504 My '63. (MIRA 16:6)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.
(Methacrylamide)



BUGAYEV, Nikolay Viktorovich [Buhaiov, M.]; TIKHONOV, A.

[On the road of labor victories] Shliakhom trudovykh peremoh.
Kyiv, Derzh.vyd-vo polit.lit-ry URSR, 1958. 97 p. (MIRA 12:12)
(Ukraine--Agriculture)

BELOVOL, N., podpolkovnik; MEL'NIK, N., podpolkovnik; TIKHOLAZ, I., mayor

"Individual evaluation"; discussion of the article published in
No.4. Voen. vest. 43 no.9:51-53 S '63. (MIRA 16:10)

(Military education)

TIKHOLOV, K.

Studies on the frequency of hypotension in Bulgaria. Suvrem. med. Sofia
8 no.3:3-10 1957.

Iz Katedrata po bolnichna terapiia pri VMI - Sofiia (Zav. katedrata:
prof. Al. Puklev).

(HYPOTENSION, statistics,
in Bulgaria (Bul))

TIKHOLOV, K.

Our experience in the treatment of diabetes with chlorpropamide.
Suvr.med. (Sofia). 15 no.3:16-25 '64

*

GELINOV, Khr.; TIKHOLOV, K.

Mucoviscidosis in adults. Suvr. med. 14 no.9:42-52 '63.

(PANCREATIC CYSTIC FIBROSIS)

TIKHOLOV, K.

PUKHLEV, Al., Prof.; TIKHOLOV, K.

Results of the treatment of diabetes with new sulfonamide-urea preparations. Suvrem. med., Sofia 8 no.1:21-35 1957.

1. Iz katedrata po bolnichna terapiia pri VMI -- Sofia
(zav. katedrata: prof. A.L. Pukhlev).

(DIABETES MELLITUS, therapy

carbutamide & tolbutamide (Bul))

(UREA, related compounds,

carbutamide & tolbutamide, ther. of diabetes mellitus (Bul))

(SULFONAMIDES, therapeutic use,

carbutamide & tolbutamide in diabetes mellitus (Bul))

TIKH. I.OV, K.; DOBREV, P.St.

Treatment of tuberculous diabetics with new peroral antidiabetic drugs. Suvrem.med., Sofia no.12:39-52 '59.

1. Iz Katedrata po bolnichna terapiia pri VMI - Sofiia. Zav. katedrata po ftiziatrii pri VMI - Sofiia. Zav.katedrata: prof. K. Mondeshki.

(TUBERCULOSIS PULMONARY compl.)
(DIABETES MELLITUS compl.)

POPOV, N.; TIKHOLOV, K.

On uropepsin and its diagnostic significance. Suvrem med., Sofia
no.2:85-92 '61.

1. Katedra po bolнична терапия при Висшия медитински институт,
София (Руков. на кадрата проф. А. Пухлев.)

(UROPEPSIN chemistry)

ASTUJU, A.; TIKHOLOV, K.

Biguanides—new oral antidiabetic preparations. Sovr. med.
(Sofia) 16 no.9:597-564 '65.

TIKHOLOV, M.

Changes in the frequency and the significance of the presence of tubercular pleurisy on the development of pulmonary tuberculosis.
Suvrem med., Sofia no.1:43-50 '61.

1. Katedra po ftiziatriia pri Instituta za spetsializatsia i ushuvurshenie na lekarite. (Rukovoditel na katedrata prof. St. Todorov.)

(TUBERCULOSIS PULMONARY physiol)

KEREKOVSKI, Iv.; NIKOLOV, St.; PAVLOV, V.; TIKHOLOVA, Tsv.

Immediate and remote sequelae of 'infectious hepatitis. Suvrem. med.,
Sofia 8 no.4:56-60 1957.

1. Iz Okruzhna bolnitsa V. Kolarov - Kolarovgrad.
(HEPATITIS, INFECTIOUS, complications,
sequelae (Bul))

TIKHOMANDRITSKAYA, V.A.

Coaxial plug with a reduced reflectance. Izm.tekh. no.7:41-42
J1 '62. (MIRA 15:6)
(Wave guides)

TIKHOMANDRITSKAYA , V.A.

Symmetric indicator head for coaxial measuring lines. Izm. tekhn.
no.1:45-47 Ja '64. (MIRA 17:11)

L 23288-65

ACCESSION NR: AP4049922

S/0020/64/159/003/0599/0601

AUTHOR: Zubkov, V.I.; Tikhomiarov, M. V.; Golubtsov, S. A.; Andrianov, K. A. **B**
(Academician)

TITLE: Mass-spectrometric study of intermediate products of the reaction between silicon and cuprous chloride

SOURCE: AN SSSR. Doklady*, v. 159, no. 3, 1964, 599-601

TOPIC TAGS: mass spectrometer, silicon oxidation, cuprous chloride, silicon dichloride

ABSTRACT: The work was carried out by means of an MI-1305 mass spectrometer with an ion source. The mixture of cuprous chloride and silicon (particles 75-250m) was placed in an ampoule (see Fig. 1 of the Enclosure), which was surrounded by a tungsten heater. The temperature of the ampoule was measured with a thermocouple attached to its outer surface. The gaseous products of the reaction entered the ionization chamber of the source through an aperture in a platinum diaphragm. Silicon tetrachloride could also be introduced into the ion source through this ampoule. The ion currents were measured with an Si Cl ion counter. The mass-spectrometric study of the reaction mixture CuCl + Si showed that even at low temperatures (180°C), the ratios of peak intensities in the mass spectrum correspond to the presence of the compound

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L 23288-65

ACCESSION NR: AP4049922

SiCl₂. This also confirms the following equations:



The authors also studied the mass spectra of the end product of the reaction, silicon tetrachloride, and of the gaseous products evolved. Orig. art. has: 1 figure, 1 table, and 3 chemical equations.

ASSOCIATION: None

SUBMITTED: 10Jul64

ENCL: 01

SUB CODE: IC,GP

NO REF Sov: 004

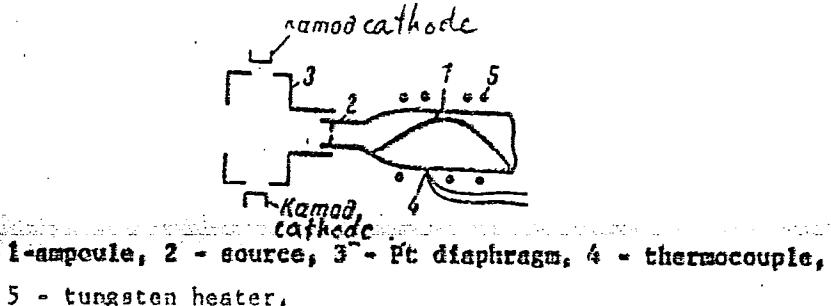
OTHER: 001

Card 2/3

L 23268-65
ACCESSION NR: AP4043922

ENCLOSURE: 01

Fig. 1. Schematic illustration of the mass spectrometer.



Card 3/3

9 (0)

CHICOM/31-59-12-4/12

AUTHOR:

V. V. Tikhomilov

TITLE:

The Development of Radio Electronics in the U.S.S.R.

PERIODICAL:

Kuo Hsueh T'ung Pao, 1959, Nr 12, pp 393-395

ABSTRACT:

This is a translation of a Russian-language article published in "Bulletin of Soviet Academy of Science," Nr. 3, 1959. Translator: Shieh, San-ta (謝善達), Proof reader: Chang, Chih-ch'eng (張志成).

Card 1/1

TIAKHMIR, N. N.

"Determination of Reaction Rate Constant of Hydrogen Atoms With Hydrocarbons in Relation to the Reactivity of Hydrocarbons." Sub 9 Mar 51, Moscow Order of Lenin State U imeni M. V. Lomonosov.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 2 May 55

LIKACHEV, A.G.; TIKHOMIREVA, G.I.

Report of the executive committee of the All-Union Scientific
Society of Otolaryngologists for the year 1953. Vest. oto-rin.
16 no.6:81-90 N-D '54. (MLRA 8:1)
(OTORHINOLARYNGOLOGY
in Russia, society report)

TIKHOMIRO, N.I.

Characteristics of Transbaikalian deposits of the cassiterite-sulfide formation and their association with magmatic activity.
Sov. geol. 3 no.7:49-58 Jl '60. (MIRA 13:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.
(Transbaikalia--Cassiterite)
(Transbaikalia--Sulfides)

TIKHOMIROV, A., kand. tekhn. nauk; FALEYEV, R., inzh.; GORIZONTOVA, Ye., inzh.

Increasing the capacity of poultry processing lines. Mias. ind.
SSSR 30 no.3:16-19 '59. (MIRA 12:9)

1. Tsentral'nyy nauchno-issledovatel'skiy institut ptitsepererabatyvayushchey promyshlennosti.
(Poultry plants)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001755530009-6

TIKHOMIROV. A.

Homemade sighting lens. Sov.foto 18 no.12:61-62 D '58.
(MIRA 11:12)
(Motion-picture cameras)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001755530009-6"

TIKHOIROV, A., kandidat tekhnicheskikh nauk; GORIZONTOVA, Ye., inzhener.

Poultry processing industry abroad. Mias. ind. SSSR 27 no.4:
60-63 '56. (MLRA 9:10)

(Poultry plants)

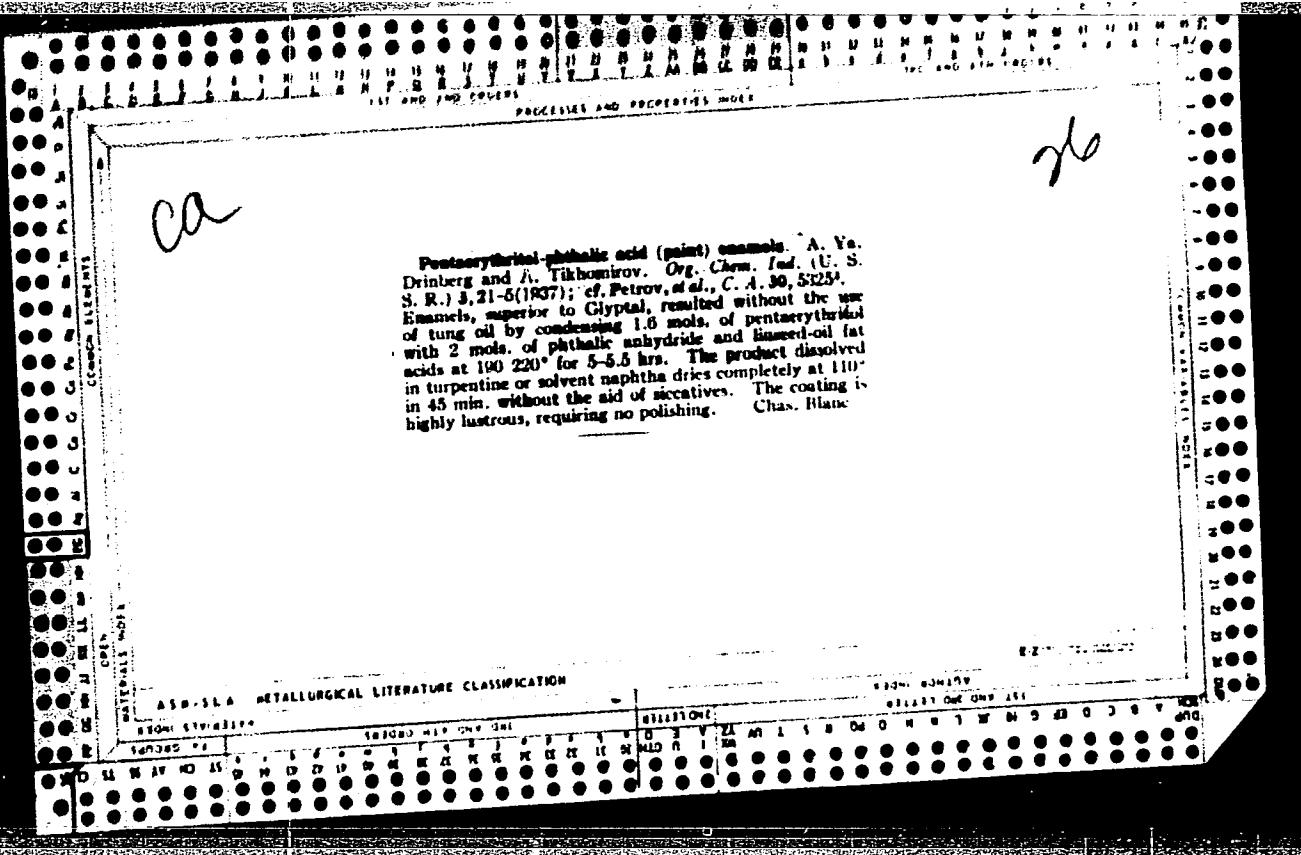
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CIA-RDP86-00513R001755530009-6

NIKONOV, A.

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001755530009-6"



TIKHOVNIROV, A., sadovod-lyubitel' (Kazan')

Collective measures in orchards. Zashch. rast. ot vred. i bol.
5 no. 6:14 Je '60. (MIRA 16:1)

(Fruit—Diseases and pests)

TIKHOMIROV, A.

First stable Soviet currency unit. Den. i kred. 20 no. 12:
(MIRA 16:1)
32-36 D '62.

(Money)

TIKHOMIROV, A.

How do you load the "Kiev 16S-2?" Sov. foto 22 no. 7:36-37 Jl '62.
(MIRA 16:4)

(Cameras)

TIKHOHOMIROV, A.

Once more about a table for film mounting. Sov.foto 20 no.1:40
(MIRA 13:5)
Ja '60.
(Motion-picture projection)

TIKHOHOMIROV, A., kinolyubitel'

When will the amateur photographer be able to obtain all
necessary supplies? Sov.foto 20 no.7:35 J1 '60.

(MIRA 13:7)

(Photography--Equipment and supplies)

TIKHOMIROV, A., kand.tekhn.nauk

Basic trends in the mechanization of operations in the poultry
industry. Mias.ind.SSSR 30 no.6:25-27 '59. (MIRA 13:4)

1. TSentral'nyy nauchno-issledovatel'skiy institut ptitseperera-
batyyvayushchey promyshlennosti.
(Poultry plants)

TIKHOMIROV, A.

USSR/Chemical Technology - Chemical Products and Their
Application. Food Industry

I-28

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 13983

Author : Tikhomirov A., Fadeyev R., Batalov A.
Inst : All-Union Scientific Research Institute of Poultry
Industry
Title : New Continuous Operation System of Processing Freshly
Killed Ducks and Geese.

Orig Pub : Mynasnaya industriya SSSR, 1956, No 3, 16-19

Abstract : The All-Union Scientific Research Institute of Poultry
Industry has designed and built a specimen of a continuous
operation chamber for heat processing of killed
geese and ducks at 72°. Provision of the chamber has
made it possible to mechanize the processes of picking
of water fowl and to evolve a conveyer line processing
system having an output capacity of 2400 geese or ducks
per shift. Operations of heat treatment and picking of

Card 1/2

- 418 -

USSR/Chemical Technology - Chemical Products and Their
Application. Food Industry

I-28

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 13983

neck feathers are automatically controlled. Large feathers are removed by roller machines, small feathers and down by combing machines. A conveyer line of somewhat lower output capacity (1600 geese or 2400 ducks per shift) has been set up and operates successfully at the Volokamsk poultry combine. Described are the arrangement of the chamber and specific features of this conveyer line system. A diagram is included showing the continuous operation processing of freshly killed water fowl.

Card 2/2

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